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09/688,456	10/16/2000		ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Please find below and/or attached an Office communication concerning this application or proceeding.

	A Iliantian Bla	T			
	Application No.	Applicant(s)			
Office Action Summary	09/688,456	OGG ET AL.			
,	Examiner	Art Unit			
The MAILING DATE of this communication appe	Firmin Backer ears on the cover sheet with the	3621 W			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply or if NO period for reply is specified above, the maximum statutory period will replay within the set or extended period for reply will, by statute, or any reply received by the Office later than three months after the mailing or earned patent term adjustment. See 37 CFR 1.704(b). Status	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days Il apply and will expire SIX (6) MONTHS from	nely filed s will be considered timely. the mailing date of this communication.			
1) Responsive to communication(s) filed on 16 Au	ugust 2004 .				
1 0-157	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4)⊠ Claim(s) <u>1-70</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-70</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or e	election requirement.				
9) The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the d	Irawing(s) be held in abevance Sec	e 37 CER 1 85/a)			
11) Ine proposed drawing correction filed on is	s: a)☐ approved b)☐ disapprov	ed by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.					
12)☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
 Certified copies of the priority documents h 	ave been received.				
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domestic p	riority under 35 U.S.C. § 119(e)	(to a provisional application).			
 a) ☐ The translation of the foreign language.provisi 15)☐ Acknowledgment is made of a claim for domestic p 	ional application has been receiv riority under 35 U.S.C. §§ 120 a	ved. nd/or 121.			
Attachment(s)					
		PTO-413) Paper No(s) ent Application (PTO-152)			

1) 2) 3)

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Response to Request for Reconsideration

This is in response to a request for reconsideration file August 16th, 2004. Claims 1-70 are being reconsidered in this action.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-70 are rejected under 35 U.S.C. 103(a) as being unpatentable over Whitehouse (U.S. Patent No. 6,005,945) in view of Leon (U.S. Patent No. 6,424,954).
- 3. As per claim 1, Whitehouse teaches a cryptographic device (secure central computer, 102) for securing data (postal information) on a computer network (network 100, fig 3, 4) comprising a processor (postal authority computer for processing, 180) programmed to authenticate (authenticate) a plurality of users (users, 104) on the computer network (network 100, fig 3, 4) for secure processing of a value bearing item (postal indicium, fig 2) (see abstract, figs 2, 3, 4), a memory (memory, 154) for storing (stores) security device transaction data (records) for ensuring authenticity of a user, wherein the security device transaction data is related to the one of the plurality of users a cryptographic engine (cryptographic key) for cryptographically protecting data and an interface (interface, 152, 112, 252) for

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communicating with the computer network (see abstract, fig 4, 7, column 8 lines 54-8 line 63). Whitehouse fails to teach an inventive concept of a module for processing value for the value bearing items. However, Leon teaches an inventive concept of a module for processing value for the value bearing items (see abstract, fig 9). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Whitehouse's inventive concept to include Leon's inventive concept of a module for processing value for the value bearing items because this would have prevent mail piece from being short paid for its weight and destination.

4. As per claims 2, Whitehouse teaches the inventive concept as stated in claim 1. Whitehouse fail to teach a cryptographic device and a method wherein the processor is programmed to verify that the identified user is authorized to assume a role and perform a corresponding operation. However, Leon teaches a cryptographic device wherein the processor is programmed to verify that the identified user is authorized to assume a role and perform a corresponding operation (see column 8 line 45-9 line 67). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Whitehouse's inventive concept to include Leon a cryptographic device wherein the processor is programmed to verify that the identified user is authorized to assume a role and perform a corresponding operation because this would have provided knowledge to the system as to which entity is using the system in order to determine which level of security is applicable.

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5. As per claim 3-6, Leon teaches a cryptographic device wherein the assumed role is a key custodian role to take possession of shares of keys, an administrator role to manages a user access control database, is a provider role to authorize increasing credit for a user account a user role to perform expected IBIP postal meter operations (see column 8 line 45-9 line 67).

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- 6. As per claim 7-9, Whitehouse teaches a cryptographic device further comprising a stored secret that is a password, a public/private key for cryptographically protecting data (see column 8 lines 30-42, 9 lines 12-31, 10 lines 50-11 line 29, 12 lines 35-64).
- 7. As per claim 10, Leon teaches a cryptographic device wherein the processor is programmed to include a state machine for determining a state corresponding to availability of commands in conjunction with the roles (see column 8 lines 45-62).
- 8. As per claim 11-14, Whitehouse teaches a cryptographic device wherein the processor is stateless and is programmed to for preventing unauthorized disclosure of data and undetected modification of data, to ensure proper operation of cryptographic security and VBI related meter functions (see abstract, figs 3, 4, 6 and 7, column 12 lines 35-64, 13 line 61-14 line 36).
- 9. As per claims 15 and 16, Leon teaches a cryptographic device for providing indications of an operational state of a VBI meter, for supporting multiple concurrent users and maintaining a separation of roles and operations performed by each user (see column 8 lines 45-62).

- 10. As per claim 17, Whitehouse teaches a cryptographic device wherein the processor stores information about a number of last transactions in an internal register and compares the information saved in the register with the information saved in a memory before loading a new transaction data (see column 13 lines 61-65, 14 lines 25-36, 21 lines 20-45).
- 11. As per claim 18, Whitehouse teaches a cryptographic device wherein the memory includes data for creating indicium, account maintenance, and revenue protection (see figs 4, and 7).
- 12. As per claim 19-22, Whitehouse teaches a cryptographic device wherein the value bearing item is a postage value including a postal indicium comprises a digital signature and a postage amount, an ascending register of used postage and descending register of available postage (see abstract, column 16 lines 25-38).
- 13. As per claim 23-28, Whitehouse teaches a cryptographic device wherein the value bearing item that include a bar code is a ticket, a coupon, currency, a voucher, a traveler's check (fig 2).
- 14. As per claim 29, Whitehouse teaches a cryptographic device wherein each security device transaction data includes an ascending register value, a descending register value, a respective cryptographic device ID, an indicium key certificate serial number, a licensing ZIP code, a key token for an indicium signing key, user secrets, a key for encrypting user secrets,

data and time of last transaction, last challenge received from a respective client subsystem, an operational state of the respective device, expiration dates for keys, and a passphrase repetition list (see column 10 line 45-11 line 29, 20 line 16-40).

- 15. As per claim 30, Whitehouse teaches a cryptographic device wherein the processor is capable of sharing a secret with a plurality of other cryptographic devices (see column 9 line 32-50).
- 16. As per claim 31-34, Whitehouse teaches a cryptographic device wherein the processor and the cryptographic engine generate a master key set (MKS) includes a Master Encryption Key (MEK) used to encrypt keys when stored outside the device, includes a Master Authentication Key (MAK) used to compute a DES MAC for signing keys when stored outside of the device and is exported to other cryptographic devices (see column 23 line 41-67).
- 17. As per claim 35, Whitehouse teaches a cryptographic device comprising a memory including a user profile for a subset of the plurality of users (see column 10 line 45-11 line 29).
- 18. As per claim 36, Whitehouse teaches a cryptographic device wherein the user profile includes username, user role, password, logon failure count, logon failure limit, logon time-out limit, account expiration, password expiration, and password period (see column 10 line 45-11 line 29).

- 19. As per claim 37, Whitehouse teaches a cryptographic device wherein the state machine comprises of an uninitialized state, an initialized state, an operational state, an administrative state, an exporting shares state, an importing shares state, and an error state (see fig 6A, column 9 line 59-62).
- 20. As per claim 38, Whitehouse teaches a cryptographic device wherein the operational state comprises means for access control, session management, key management, audit support (see column 10 line 1-11 line 34).
- 21. As per claim 39, Whitehouse teaches a cryptographic device wherein the cryptographic engine is programmed to perform one or more of Rivest, Shamir and Adleman (RSA) public key encryption, DES, Triple-DES, DSA signature, SHA-1, and Pseudo-random number generation algorithms (see column 4 line 20-27, 16 lines 39-44, 23 lines 41-67).
- 22. As per claim 40, Whitehouse teaches a cryptographic device wherein at least one of the plurality of users is an enterprise account (see column 27 lines 27-45).
- As per claim 41, Whitehouse teaches a method for securing (secure central computer, 102) data (postal information) on a computer network (network 100, fig 3, 4) including a plurality of users (customer/users, 104) comprising authenticating (authenticate) and authorizing (authorizing) the plurality of users (customer/users, 104) for secure processing of a value bearing item (postal indicium, fig 2) (see abstract, figs 2, 3, 4), storing (storing) a

security device transaction data (cryptographic key record) in a memory (memory, 154) for ensuring authenticity and authority of one of the plurality of users, wherein the security device transaction data is related to the one of the plurality of users and including cryptographically protected data using a stored secret (key) (see abstract, fig 4, 7, column 8 lines 54-8 line 63). Whitehouse fails to teach an inventive concept of a module for processing value for the value bearing items. However, Leon teaches an inventive concept of a module for processing value for the value bearing items (see abstract, fig 9). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Whitehouse's inventive concept to include Leon's inventive concept of a module for processing value for the value bearing items because this would have prevent mail piece from being short paid for its weight and destination.

- 24. As per claim 42, Whitehouse teaches a method of printing the value bearing item (see figs 2, 5).
- 25. As per claim 43, Whitehouse teaches a method of storing a plurality of security device transaction data related to one of the plurality of users (see column 9 lines 12-31).
- 26. As per claim 44, Whitehouse teaches a method of loading a security device transaction data related to the cryptographic device when the user requests to operate on a value bearing item (see column 9 lines 12-31).

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- As per claim 46-51, Leon teaches a cryptographic device wherein the assumed role is a key custodian role to take possession of shares of keys, an administrator role to manages a user access control database, is a provider role to authorize increasing credit for a user account a user role to perform expected IBIP postal meter operations (see column 8 line 45-9 line 67).
- 29. As per claim 52-55, Whitehouse teaches a method further comprising the step of printing a postage value including a postal indicium comprises a digital signature, a postage amount, an ascending register of used postage and descending register of available postage (see column 16 lines 25-38).

- 30. As per claim 56-61, Whitehouse teaches a method of printing a ticket, a bar code, a coupon, a currency, a traveler's check, a voucher (see fig 2)
- 31. As per claim 62, 63, Whitehouse teaches a method of storing a user profile includes username, user role, password, logon failure count, Logon failure limit, logon time-out limit, account expiration, password expiration, and password period for a subset of the plurality of users (see column 10 line 45-11 line 29).
- 32. As per claim 64, Whitehouse teaches a method of performing one or more of Rivest, Shamir and Adleman (RSA) public key encryption, DES, Triple-DES, DSA signature, SHA-1, and Pseudo-random number generation algorithms by each of the cryptographic devices (see column 4 line 20-27, 16 lines 39-44, 23 lines 41-67).
- 33. As per claim 65, Whitehouse teaches a method of supporting multiple concurrent operators and maintaining a separation of roles and operations performed by each operator (see fig 3).
- 34. As per claim 66, Whitehouse teaches a method of storing information about a number of last transactions in a respective internal register of each of the one or more cryptographic devices, storing a table including the information about a last transaction in the database; and comparing the information saved in the respective device with the respective information saved in the database (see column 10 line 45-11 line 29).

- 35. As per claim 67, Whitehouse teaches a method of loading a new transaction data if the respective information stored in the device compares with the respective information stored in the database (see column 22 line 36-53).
- 36. As per claim 68-69, Whitehouse teaches a method therein the secret is a password, a public/private key pair (see column 8 lines 30-42, 9 lines 12-31, 10 lines 50-11 line 29, 12 lines 35-64).
- 37. As per claim 70, Whitehouse teaches a method wherein at least one of the plurality of users is an enterprise account (see column 27 lines 27-45).

Response to Arguments

38. Applicant's arguments filed August 16th, 2004 have been fully considered but they are not persuasive.

Applicant argue that the rejection made under 35 U.S.C. 103 (b) over Whitehouse (6,005,945) in view of Leon (6,424,954) is a reinstate rejection after a it was withdrew earlier in the prosecution. Examiner respectfully disagrees with Applicant's characterization of the rejection. Leon disclosure was only applied to claims 2-6, 10, 15, 16, 37, 38 and 45-51 earlier in the prosecution and was dropped in favor of Ulvr. However, after Applicant amended claims 1

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and 41 and presented a declaration, the decision was made by the Examiner to use Leon's disclosure in view of the added limitation that was not previously rejection under Leon.

Therefore the rejection is proper.

Applicant further argue that reference fail to teach an inventive concept of a softwarebased system meets the IBIP specifications for a PSD, using a centralized server-based implementation of PSDS utilizing one or more cryptographic modules located remotely from the users (i.e. do not require a specialized hardware metering device located at the user's site) emphasis added. Examiner respectfully disagrees with Applicant's characterization of the prior art. Leon teaches in a system wherein a state diagram of a specific embodiment of a Packet Transmission process for both the host PC and SMD. Since the functionality of the software is the similar for both the host PC and SMD, the protocol is described in terms of "local" and "remote" devices. The transmission protocol is described from the standpoint of the local device being the transmitter of an Application Level message, and the remote device being the receiver of this message. Furthermore, Whitehouse teach a secure central computer includes a data processor; and a database of information concerning user accounts of users authorized to request postal indicia from the secure central computer. A request validation procedure authenticates received postage requests with respect to the user account information in the database. A postal indicia creation procedure, applies a secret encryption key to information in each authenticated postage request so as to generate a digital signature and combines the information in each authenticated postage request with the corresponding generated digital signature so as to generate a digital postage indicium in accordance with a predefined postage indicium data format. A communication procedure securely transmits the generated digital postage indicium to the

requesting end user computer. In whitehouse system each end user computer typically includes a data processor and a communication procedure for sending postage requests to a secure central computer at which a user account has been established, and for receiving a corresponding digital postage indicium. A postage indicium printing procedure prints a postage indicium in accordance with the received digital postage indicium. Each postage request will typically include a user account identifier that identifies a previously established user account, a source address identifier indicating where a mail piece is to be mailed from, a destination address identifier indicating where the mail piece is to be mailed to, authentication information for authenticating that the postage request is from an end user associated with the specified user account identifier, and data concerning the package size and/or weight sufficient to determine an amount of postage required for the mail piece. Each digital postal indicia will typically include data representing the user account identifier, source address identifier, and destination address identifier in a corresponding on of the postage requests.

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In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, In this case it would be obvious to combine these inventive concepts since Whitehouse and Leon disclose the same inventive concept in the same environment.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Firmin Backer whose telephone number is (703) 305-0624. The examiner can normally be reached on Mon-Thu 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Trammell can be reached on (703) 305-9768. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Firmin Backer
Primary Examiner
Art Unit 3621

November 30, 2004